Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP

Product Details	
Size	1 mg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Goat / IgG
Class	Recombinant Polyclonal
Type	Secondary Antibody
Conjugate	HRP
Immunogen	Recombinant full-length protein
Form	Liquid
Concentration	1 mg/mL
Purification	Gravity column chromatography
Storage buffer	PBS, HRP Stabilizer
Contains	proprietary preservative
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2536163

Applications	Tested Dilution	Publications
Western Blot (WB)	1:10,000-1:200,000	3 Publications
ELISA (ELISA)	0.05-1 µg/mL	-
Miscellaneous PubMed (Misc)	-	2 Publications

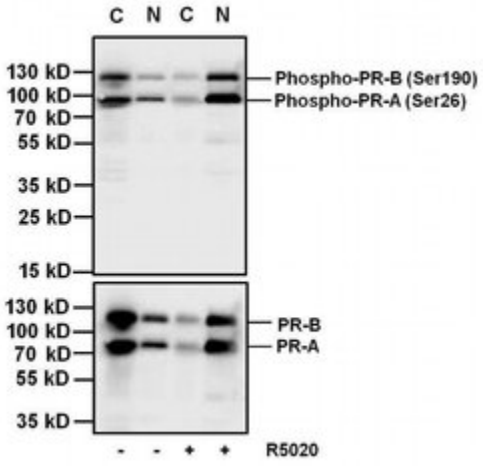
Product Specific Information

The sensitivity and specificity of each lot is confirmed using ELISA.

Minimal cross-reactivity with rabbit, rat, human, bovine, guinea pig and donkey IgG is observed.

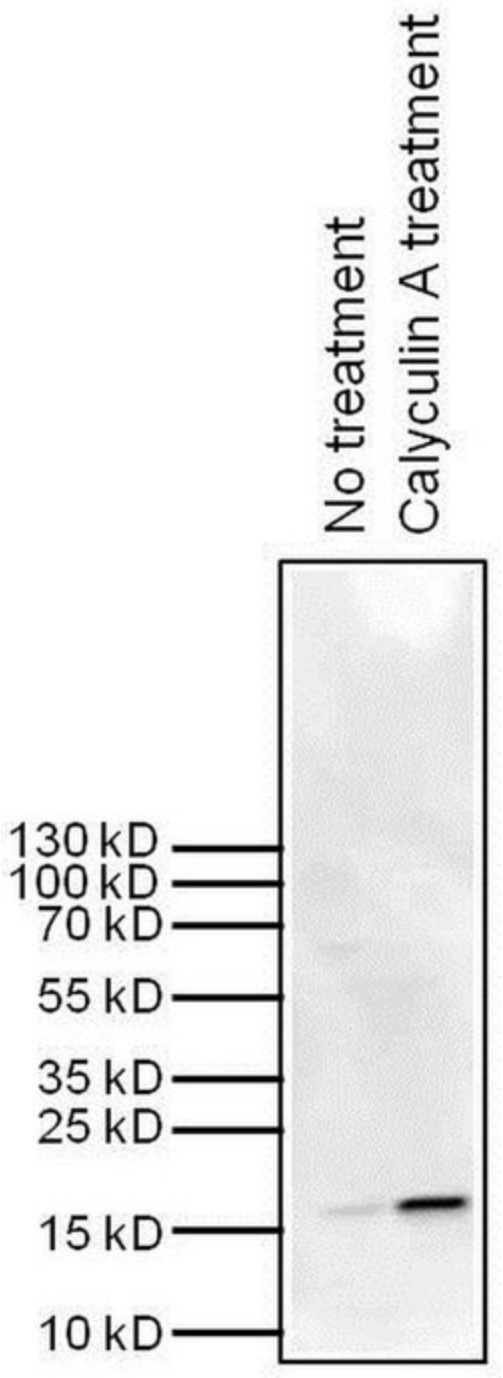
Recombinant antibodies are produced using specific genes that code for the desired antibodies. These genes are cloned into an expression vector and expressed in vitro. The advantages of recombinant antibodies include: better specificity, animal origin-free formulation, and more lot-to-lot consistency.

Product Images For Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP



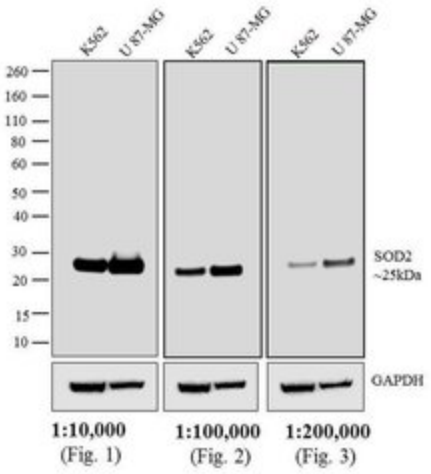
Mouse IgG (H+L) Secondary Antibody (A28177) in WB

Western blot analysis of Phosphorylated Progesterone Receptor (upper panel) and total Progesterone Receptor (lower panel) was performed by loading 20 µg of nuclear (N) or cytoplasmic (C) T47D cell lysates, untreated (-) or stimulated (+) with 100 nm promegestone (R5020) for 1 hour and 10 µL PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane using the G2 Fast Blotter (Product # 62288) and blocked with 5% Milk/TBST for at least 1 hour at room temperature. Phosphorylated Progesterone Receptor was detected using a Phospho-Progesterone Receptor (Ser190) mouse monoclonal antibody (upper panel, Product # 37-8200) at a dilution of 1:1000 and Total Progesterone Receptor was detected using a Progesterone Receptor mouse monoclonal antibody (lower panel, Product # MA1-12626) at a concentration of 1 µg/mL in blocking buffer overnight at 4°C on a rocking platform, followed by a Superclonal goat anti-Mouse IgG-HRP secondary antibody (Product # A28177) at a dilution of 1:2,000 for at least 1 hour at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078) and the myECL Imager (Product # 62236).



Mouse IgG (H+L) Secondary Antibody (A28177) in WB

Western blot analysis of phospho-Histone H3 pSer10 was performed by loading 10 µg of acid extracted HeLa nuclear lysate extracted from cells not treated (lane 1) or treated with 100 nM calyculin A (Product # PHZ1044) (lane 2) for 30 min in reducing sample buffer (Product # 39000) and Page Ruler Plus Protein Ladder (Product # 26619) onto a Novex 4-20% Tris-Glycine polyacrylamide gel (Product # WT4201BX10). Proteins were transferred to nitrocellulose membrane (Product # 88018) with Transfer Buffer (Product # 84731) using the G2 Fast Blotter (Product # 62288). Membrane was blocked in StartingBlock T20 (Product # 37543) for 30 min at room temperature. Phospho-Histone H3 pSer10 was detected at approximately 17 kDa using an H3S10ph monoclonal antibody (Product # MA3-057) at a dilution of 1: 2000 in StartingBlock T20 overnight at at 4°C on a rocking platform, followed by a goat anti-mouse superclonal IgG-HRP secondary antibody (Product # A28177) at a dilution of 1:5000 for one hour. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078) and the myECL Imager (Product # 62236). _x000D_



Mouse IgG (H+L) Secondary Antibody (A28177) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of U-87 MG (Lane 1) and K-562 (Lane 2). The blots were probed with Anti SOD2 Mouse Monoclonal Antibody (Product# MA1-106, 0.25 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP (Product # A28177) at dilutions 1:10,000 (Fig. 1), 1:100,000 (Fig. 2) and 1:200,000 (Fig. 3). A 25 kDa band corresponding to SOD2 was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary antibody after blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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5 References

Western Blot (3)

Frontiers in oncology

The CXCR4-LASP1-eIF4F Axis Promotes Translation of Oncogenic Proteins in Triple-Negative Breast Cancer Cells.

"A28177 was used in Western Blotting to identify the CXCR4-LASP1 axis to be a novel mediator in oncogenic protein translation."

Authors: Howard CM,Bearss N,Subramaniyan B,Tilley A,Sridharan S,Villa N,Fraser CS,Raman D

Species
Mouse

Dilution
Not Cited

Year
2020

Molecular medicine reports

Pioglitazone increases VEGFR3 expression and promotes activation of M2 macrophages via the peroxisome proliferatoractivated receptor .

Authors: Zhang C,Zhang Y,Zhang C,Liu Y,Liu Y,Xu G

Species
Mouse

Dilution
1:10000

Year
2019

View more WB references on thermofisher.com

Miscellaneous PubMed (2)

Molecular neurodegeneration

Autophagy protein NRBF2 has reduced expression in Alzheimer's brains and modulates memory and amyloid-beta homeostasis in mice.

"A28177 was used in Western Blotting to study NRBF2 as a therapeutic target for Alzheimer's disease for reducing cognitive decline."

Authors: Lachance V,Wang Q,Sweet E,Choi I,Cai CZ,Zhuang XX,Zhang Y,Jiang JL,Blitzer RD,Bozdagi-Gunal O,Zhang B,Lu JH,Yue Z

Species
Not Applicable

Dilution
1:1000

Year
2019

Nature communications

Long-read sequencing unveils IGH-DUX4 translocation into the silenced IGH allele in B-cell acute lymphoblastic leukemia.

"A28177 was used in Western Blotting to study the interplay between IGH proto-oncogene translocation and IGH allelic exclusion."

Authors: Tian L,Shao Y,Nance S,Dang J,Xu B,Ma X,Li Y,Ju B,Dong L,Newman S,Zhou X,Schreiner P,Tseng E,Hon T,Ashby M,Li C,Easton J,Gruber TA,Zhang J

Species
Not Applicable

Dilution
1:5000

Year
2019

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